



The SPERRY UNIVAC UTS 20 is a microprocessor-based communications terminal with a 12-inch diagonal CRT display which offers expanded UNISCOPE functionality plus many UTS 400 features at lower cost. It is designed to be compatible with currently installed SPERRY UNIVAC Uniscope 100, 200 and UTS 400 terminals, thus protecting the user's investment in his terminal network and allowing for the low-cost expansion of such networks. It can also be used for new networks and/or applications where extensive data editing capabilities without user programmability in the terminal are required.

Two basic versions of the UTS 20 are available—the single station UTS 20 and the cluster workstation UTS 20W.

The "personality" of the UTS 20 single station is user-selectable by means of a program cartridge which plugs into the back of the unit. Available program cartridges include:

- UTS 400 Mode—compatible with user applications now employing UNISCOPE and/or UTS 400 terminals
- Screen Bypass Mode—equivalent to UTS 400 Mode with the screen bypass capability added

Program cartridges offer several advantages to users of the UTS 20. Among these are:

- The ability to incorporate system updates by user insertion of a new cartridge
- The capability to take advantage of future terminal enhancements without having to upgrade to an entirely new terminal

As a single station, UTS 20 comes equipped with an RS232C/V24 communications interface allowing it to be connected to a host system from remote locations. Line sharing is achieved by multidropping or multiplexing via the Sperry Univac Terminal Multiplexer.

Using UTS 400 compatible protocol, the UTS 20 single station transmits synchronously in ASCII code—the industry standard. It is capable of transmission speeds to 9600 bits per second.

A direct connect feature allows the user to bypass modems when the terminals are located at the host site.

As a local workstation, the UTS 20W is directly attachable to the UTS 4020 cluster controller. Up to 12 workstations can be locally attached to the UTS 4020

cluster controller. The UTS 20W cluster workstation does not require a program cartridge nor a modem interface. Its microcode is loaded at very high speed from the cluster controller. All other features are the same as the single station.

The user may select one of several pluggable keyboards. The typewriter keyboard (70 keys, ISO 3243) saves space. The expanded typewriter keyboard (94 keys) provides the typewriter layout (ISO 3243) plus function and numeric pads. For the Japanese market, a Katakana keyboard is available. Lastly, a UTS 400 compatible keyboard with domestic USA keycaps is offered.

Underlying the design of the UTS 20 are extensive human engineering considerations derived from accumulated experience on similar and related terminals. As a result, the UTS 20 is designed for easy, straightforward operation. The optional tilt/rotate base minimizes the need for awkward head or body positions. The operator's field of view of the display is well within normal eye span; the keyboard is designed for comfortable touch-typing and the terminal is virtually silent. All the control keys required to operate the terminal and initiate data transfer are located on the keyboard and are easily reached. Because the keyboard is similar to that of a typewriter, little additional training is required to operate the terminal system and use its many extra capabilities. If the operator desires, the terminal will generate an audible click for each character successfully entered from the keyboard.

The non-glare visual display consists of green characters on a dark background. The entire display is flicker-free and the characters are sharp and bright, resulting in excellent legibility and clarity of presentation. Character brightness is operator adjustable. The nearly vertical CRT provides a natural viewing angle. All of these features provide maximum viewing comfort for the operator.

Proven field control features provide basic data entry capabilities without the need for a user program. These include such things as right justification, alpha/numeric checking and automatic tabulation settings.

Field control is accomplished with the help of Field Control Characters (FCC's) which were first introduced on UTS 400 visual displays. In contrast to that terminal, there is no limitation to the number of FCC's which may be used within one display line.

The parameter setup capabilities of the UTS 20 offer users a great deal of flexibility to accommodate operator preferences or application requirements. These parameters can be set after inserting a supervisor key and include such features as:

- Field highlighting by reverse video or low intensity
- Destructive space bar
- Screen refresh rates and time-out values
- Audible keystroke feedback

Peripherals supported by the UTS 20 include the SPERRY UNIVAC 0798 and 0797 impact printers and the Magnetic Stripe Reader.

For more information on this advanced terminal system, contact your local Sperry Univac representative.



## **SPERRY UNIVAC UTS 20**

### **FUNCTIONAL CHARACTERISTICS**

#### **Display Format Selections**

Any display format may be selected from 2 lines of 2 characters each to 24 lines of 80 characters each.

#### **View Area**

10 inches by 7 inches

#### **Display Size**

12-inch diagonal

#### **Character Generation**

7 by 11 dot matrix, refresh rate of 50 or 60 times per second

#### **Character Generator**

Standard 96 character set (128 including Katakana)

#### **Transmission Code**

7-level ASCII plus parity

#### **Transmission Mode**

Half duplex

#### **Transmission Facilities**

Voice grade telephone line (switched network or private line)

#### **Transmission Type**

Synchronous

#### **Transmission Rate**

Up to 9600 bits per second

#### **Communications Interface**

EIA RS-232-C/CCITT V.24

### **Data Integrity Provisions (UTS 400 Mode)**

- Minimum single bit error detection on communication line and peripheral transfers
- Automatic retry with communication line and peripheral transfers
- Internal parity checks

### **Two Security Keylocks (std)**

Operator  
Supervisor

### **Selective Addressing**

Host processor can select any terminal or peripheral device or both.

### **Keyboards**

- Typewriter
- Expanded typewriter
- Katakana/English
- UTS 400-format

### **Language Selections** (typewriter and expanded typewriter keyboard only)

Danish/Norwegian  
French  
German  
Danish  
Swedish/Finnish  
United Kingdom  
Italian

### **Protected Format**

Protection of specified data fields as defined by field control characters or UNISCOPE character-protect sequences

### **Program Attention Keys**

Keys that generate unique codes for use as requests or indicators to the host, extending operation and system control

### **Editing and Other Function Keys**

Cursor control  
Character, field, line, screen editing  
Peripheral control

## **PHYSICAL CHARACTERISTICS**

Width: 16.75 inches (42.5 cm)  
Height: 12.75 inches (32.5 cm)  
Depth: 17.00 inches (43.0 cm)  
Weight: 35 pounds (15 kg)

## **POWER REQUIREMENTS**

### **Nominal Voltage**

100, 120, 220, or 240

### **Nominal Frequency**

50 or 60 Hz

### **Phases and lines**

Single phase, 3 wire

### **Input Power Required**

48 volt-amps

### **Heat Dissipation**

137 BTU/hr.

### **Power Dissipation**

144 kj/hr.

## **PERIPHERAL DEVICES**

### **SPERRY UNIVAC**

#### **Magnetic Stripe Reader**

## **FUNCTIONAL CHARACTERISTICS**

### **Code Formats**

American Bankers Assoc. (ABA) up to 40 numeric characters.  
International Air Transport Assoc. (IATA) up to 79 alphanumeric characters.

### **Read Speed**

Data is transferred to the UTS 20 a character at a time in 20 ms intervals.

## **PHYSICAL CHARACTERISTICS**

Width: 1.64 inches (4.2 cm)  
Height: 1.37 inches (3.5 cm)  
Depth: 7.75 inches (19.7 cm)  
Weight: 1 pound (0.45 kg)

### **SPERRY UNIVAC 0797**

#### **80-Column Matrix Printer**

## **FUNCTIONAL CHARACTERISTICS**

### **Print Speed**

80 CPS (10 C/I)

### **Character Sets**

A selection of national sets available

### **Character Matrix**

9 x 7 half space dot matrix

## **PHYSICAL CHARACTERISTICS**

Width: 13.4 inches (34 cm)  
Height: 4.25 inches (10.8 cm)  
Depth: 9.4 inches (24.5 cm)  
Weight: 13.2 pounds (6 kg)

## **POWER REQUIREMENTS**

### **Nominal Primary Power**

100 or 120 volts at 60 Hz  
100, 220 or 240 volts at 50 Hz

### **SPERRY UNIVAC 0798**

#### **132-Column Matrix Printer**

## **FUNCTIONAL CHARACTERISTICS**

### **Print Speed**

200 characters per second

### **Character Sets**

A selection of national sets available

### **Character Matrix**

7 x 7 standard half space dot

## **PHYSICAL CHARACTERISTICS**

Width: 22.6 inches (57.5 cm)  
Height: 9.6 inches (24.5 cm)  
Depth: 19.0 inches (48.5 cm)  
Weight: 55 pounds (25 kg)

## **POWER REQUIREMENTS**

### **Nominal primary power**

100 or 120 volts at 60 Hz  
100, 220, or 240 volts at 50 Hz

